

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

37-082-24
REGINA QUADRANGLE
84 KY.-119 VA.
N3715-W8215/15
DIAGRAM NJ 17-7
JENKINS

Pike County, Ky.; Dickenson County, Va.

Final adjustment of 1972

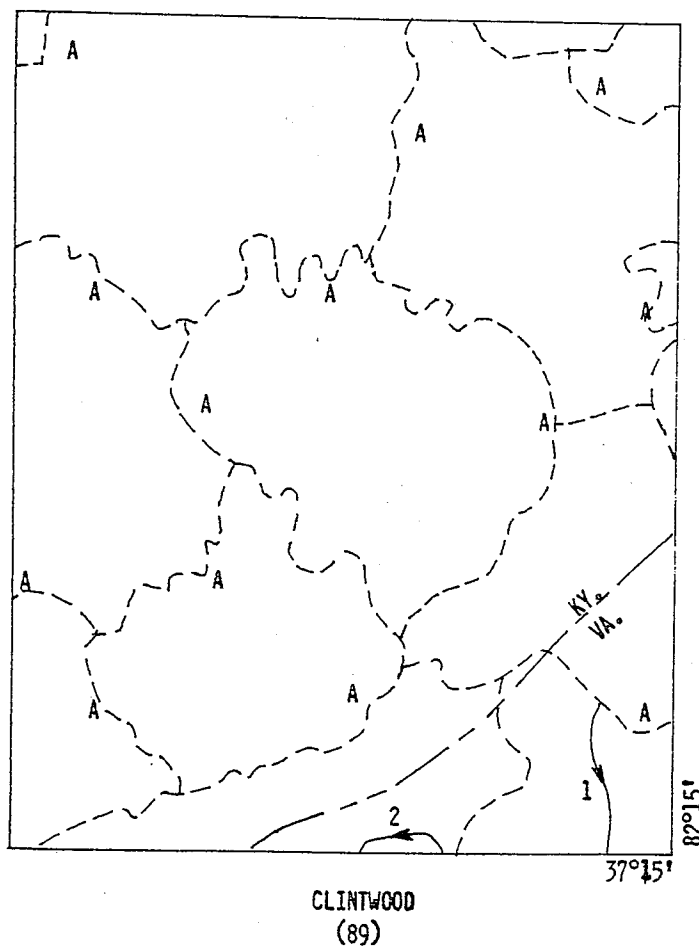
Edition of 5/31/73

PR: WSM/jyk

WILLIAMSON
(112 KY.-20 W.VA.)

PIKEVILLE
(85)

HURLEY
(118 VA - 83 KY)



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 370822

REGINA QUADRANGLE

37-082-24
N3715-W8215/15
84 KY. - 119 VA.

INDEX OF PERMANENT MARKS

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REGINA QUADRANGLE

84 KY. - 119 VA.

C. W. Arnold, 1912

Books A 9109, A 9587 and A 9638

S. R. Archer, 1915

ISOLATED BENCH MARKS (By C. W. Arnold, 1912; Book A 9109; S. R. Archer, 1915; Books A 9587 and A 9638)	<u>Feet</u>
Praise; in W. end of S. abutment of RR. bridge over Russels Fork; standard tablet stamped "792 1912" (BM transferred 50 ft E. to Mudwall and set 1.598 ft higher than old location)	792.342
Ashcamp, 150 ft E. of; on N. side of rd.; in large boulder; standard tablet stamped "1084 1912" (Not found, 1954)	1083.626
Shelby Station, 0.6 mi NW. of; 475 ft W. of junction of Baltimore and Ohio Railroad, and Chesapeake and Ohio Railway; in top of S. end of parapet wall of E. stone abutment of C. & O. Ry. bridge over mouth of Shelby Creek; standard tablet stamped "698 1913"	697.906
Simers; 2.4 mi NW. of post office; 400 ft NW. of junction of Road and Long Forks of Johns Creek; on N. side of Johns Creek and rd.; 5 ft above waters edge; in face of rock cliff; standard tablet stamped "1062 KY" (Not found, 1954)	1061.880
Deskin; 3.35 mi SE. of post office; 300 ft E. of mouth of Elkhorn Creek; on N. side of Johns Creek and rd.; at foot of rock cliff; in top of W. end of large boulder; standard tablet stamped "897 KY" (Tied by NGS, 1952) (Reported not found, 1956)	896.734
Simers; 0.7 mi E. of post office; 490 ft S. of mouth of Cane Patch Fork of Long Fork of Johns Creek; 100 ft S. of store of R. N. Dotson; 30 ft N. of bend in creek to E.; on W. side of creek at waters edge; in rock outcrop; standard tablet stamped "1366 KY" (Tied by NGS, 1953)	1366.756
Night; 0.2 mi W. of post office, thence 2.8 mi SE.; 700 ft W. of mouth of Crooked Branch; 150 ft NW. of, and opposite residence of John Whitt; at W. end of loop in Levisa Fork W.; at bend in river; 120 ft N. of house standing on W. side of river; 200 ft NW. of mouth of small branch from W.; on W. bank of river; in sandstone rock; standard tablet stamped "792 KY" (Not found, 1954)	791.815
Night; 3.4 mi W. of post office; 0.25 mi NW. of mouth of Elkfoot Creek; 0.35 mi W. of store of G. W. Rose; 600 ft S. of ford of Levisa Fork; on W. bank of river and rd.; S. rock of cluster of large sandstone rocks; in rock in roots of two-forked elm tree; standard tablet stamped "774 KY" (Reported destroyed, 1954)	774.359
Nigh; 6.6 mi W. of post office; opposite and 175 ft W. of mouth of Lick Creek; 140 ft W. of rd. leading NE.; 260 ft W. of water mill; on N. bank of Levisa Fork; in top of sandstone rock; standard tablet stamped "738 KY" (Not found, 1954)	738.483
Fish Trap; 4.2 mi E. of post office; 420 ft N. of, and opposite mouth of Belcher (Morgans) Creek; 280 ft N. of rd. forks and watermill; 70 ft W. and 115 ft N. of Isaac Justice store; 100 ft S. of SW. corner of church; on E. bank and 35 ft E. of waters edge of Levisa Fork; on W. side and 20 ft below rd.; on S. edge of small drain from E.; in top of sandstone ledge; standard tablet stamped "723 KY" (Not found, 1954)	723.611
Fish Trap; at post office; 400 ft E. of T. A. Justice store and post office; 645 ft SE. of rd. forks at Hurricane Creek; on S. side of rd.; on N. bank of Levisa Fork; in top of large sandstone rock; standard tablet stamped "710 KY" (Not found, 1954)	709.981

REGINA QUADRANGLE

84 KY. - 119 VA.

ISOLATED BENCH MARKS (Cont'd.)Feet

Millard; 3.6 mi NE. of post office; 465 ft N. of rd. forks; at mouth of Upper Pompey Creek; 180 ft N. of schoolhouse on E. bank of Upper Pompey Creek; in top of large sandstone rock; standard tablet stamped "704 KY" (Tied by NGS, 1956) (Not found, 1976) 704.428

Millard Post Office; opposite The Forks station; 425 ft E. of junction of Russell and Levisa Forks; 225 ft E. of wagon ford across Levisa Fork on N. bank of Levisa Fork; on S. side of, and 4 ft below rd.; in top projection of large sandstone boulder; standard tablet stamped "676 KY" 676.571

Shelby; 0.6 mi NW. of station; 475 ft W. of junction of B. & O. and Chesapeake and Ohio Railroads; in top of S. end of parapet wall of E. stone abutment of C. & O. RR. bridge over mouth of Shelby Creek; standard tablet stamped "698" 697.906

Marrowbone (Regina), 0.2 mi S. of; at Chesapeake and Ohio Railway bridge 1206 over mouth of Marrowbone Creek; in E. end of second course of stone of S. stone abutment of bridge; standard tablet stamped "718.640 KY" (Tied by NGS, 1956) 718.640

Marrowbone (Regina), 2.2 mi SE. of; 0.2 mi SE. of milepost 122; opposite and 375 ft S. of mouth of rd. fork; 480 ft S. of S. house of two houses on W. side of RR.; 360 ft N. of station board and switch (Looney) at W. end of concrete culvert under RR.; standard tablet stamped "729 KY" 728.908

Elkhorn City (Praise Post Office); on top of W. end of S. concrete abutment of approach to C. & O. Railway bridge 1240 over Russell Fork; standard tablet stamped "792 KY 792.288" (Tied by NGS, 1956) 792.288

Elkhorn City (Praise Post Office), 2.1 mi SE. of; at W. end of Pool Point Tunnel; at steel RR. bridge over Russell Fork; in top of N. end of E. concrete abutment; standard tablet stamped "KY 940.792" (Tied by NGS, 1958) 940.792

Mouthcard; 0.2 mi S. of mouth of Big Card Creek; at steel hwy. bridge over Levisa Fork; in N. end of concrete abutment of E. approach; standard tablet stamped "841 KY" (Tied by NGS, 1953) 841.537

Praise, 4.2 mi W. of; 500 ft W. of house at mill dam; on N. side of rd.; in large boulder; standard tablet stamped "936 1912" (Not found, 1954) 935.323

Haysi, 6.0 mi N. of; 10 ft N. of N. rail of main track; 1 ft W. of E. end of N. headwall of stone box culvert; in headwall; standard tablet stamped "1128" (Tied by NGS, 1935) 1127.921

LINE 1.

W. S. Monk, 1960; Book AV 824

5 56 0.00 "W 317 1952" (NGS) 1481.286

REGINA QUADRANGLE

84 KY. - 119 VA.

LINE 1 (Cont'd.)Feet

5	59	1.58	Breaks; 1.2 mi S. of junction of State Highway 80 and County Road 609; at entrance to Breaks Interstate Park; 80 ft NW. of, and 3 ft higher than junction of Y-rd.; 70 ft N. of centerline of hwy.; 45 ft W. of County Road 702; 5 ft above ground; in top of concrete capped stone parapet for dining room sign; standard tablet stamped "56 WSM 1960 1684"	1683.495
5	60	1.60	Reference mark; 85 ft N. of tablet; 32 ft W. of County Road 702; on SW. corner of concrete base for sign; chiseled cross	1677.68
5	63	2.67	U.E., Haysi, 6.6 mi N. of; 85 ft W. and 16 ft N. of, and 4 ft higher than junction of State Highway 80 and Garden Hole Road; on rock ledge; chiseled cross	1321.22
5	68	4.67	Haysi, 4.6 mi N. of; at sharp curve 0.4 mi S. of crest; 120 ft SE. of, and 21 ft higher than centerline of State Highway 80 at junction of drive E.; 35 ft E. of drive; 11 ft S. of trail; 7 ft N. of 16-in. beech tree; in large boulder 1 ft E. of W. edge; standard tablet stamped "57 WSM 1960 1640"	1639.656
5	69	4.69	Reference mark; 30 ft W. of tablet; on rock outcrop; chiseled cross	1626.60

LINE 2.

W. S. Monk, 1960; Book AV 824

6	46	2.40	Bartlick, 2.4 mi W. of; 4.1 mi E. of Twin Branch School; 210 ft SE. of SE. corner of residence of Logan Yates; 155 ft SE. of junction; 140 ft N. of centerline of curve at spur ridge SE.; 15 ft E. of, and 3 ft higher than centerline of County Road 611; set vertically in rock ledge; standard tablet stamped "68 WSM 1960 1768"	1767.586
6	48	3.48	U.E., 25 ft NW. of, and 2 ft higher than junction of Y-rd.; on rock ledge; chiseled cross	1722.71
6	50	4.41	Bartlick, 4.4 mi W. of; 2.1 mi E. of Twin Branch School; 1.0 mi E. of junction of County Roads 611 and 615; 50 ft NW. of, and 12 ft higher than centerline of junction of rd. and drive; 140 ft NW. of NE. corner of residence of M. P. Willis; in large rock ledge 20 ft E. of W. edge; standard tablet stamped "69 WSM 1960 1883"	1882.737

HORIZONTAL CONTROL
NORTH AMERICAN DATUM OF 1927

UNITED STATES
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GEOLOGICAL SURVEY

37-082-24
REGINA QUADRANGLE
84 KY.-119 VA.
N3715-W8215/15
DIAGRAM NJ 17-7
JENKINS

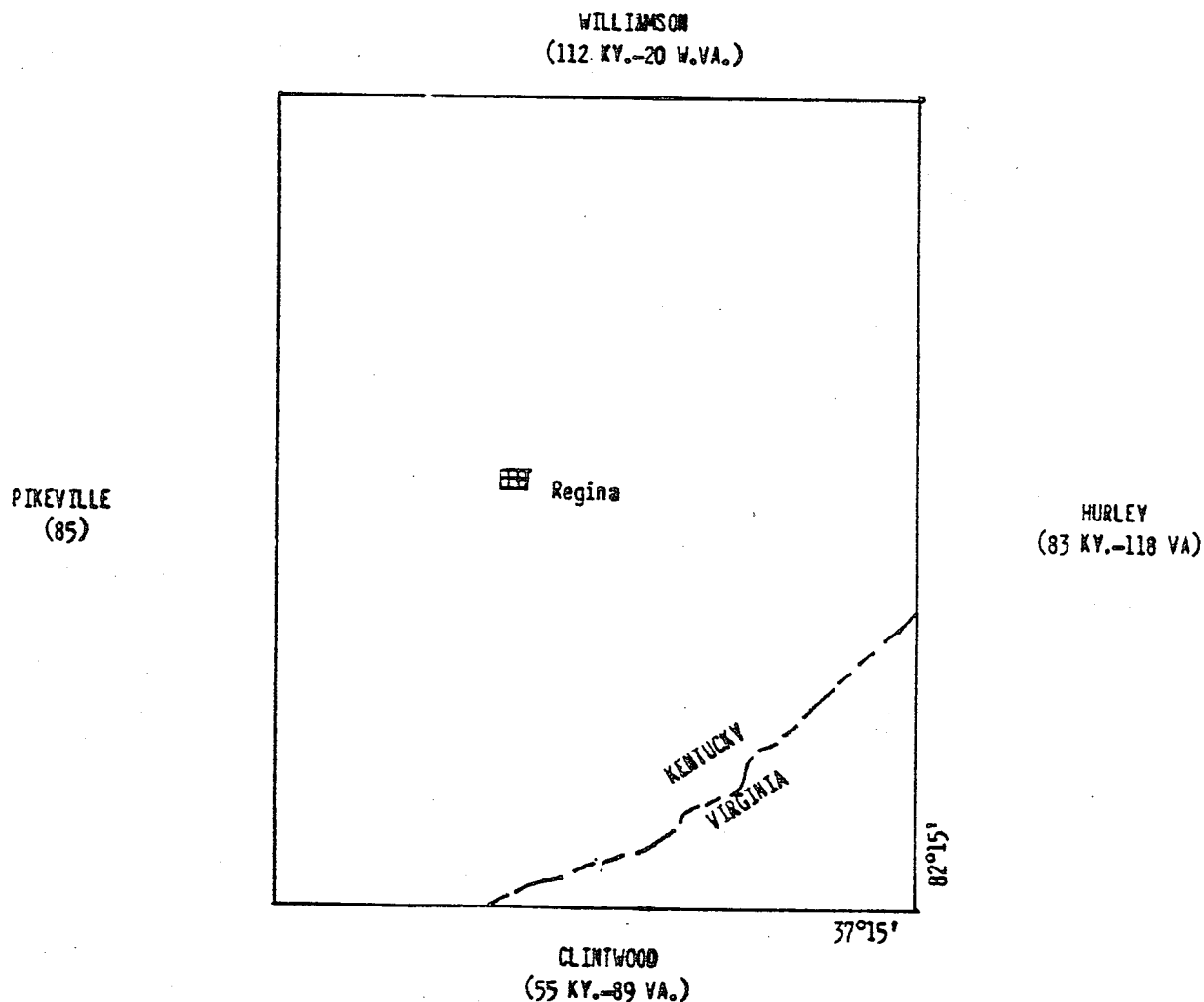
Pike County, Kentucky; Buchanan and
Dickenson Counties, Virginia

Edition of 11/18/77

PR: CRV/rmb

Plane coordinates are based on Lambert projection,
Kentucky, South Zone and Virginia, South Zone

Only the permanent marks are
listed for control classified
obsolete and are not shown on
sketch



DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

84 KY.-119 VA.
REGINA QUADRANGLE

37-082-24
M3715-W8215/15

INDEX OF PERMANENT MARKS

MARK (USGS)

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719 KY
940 KY
TT 1 CWH 1953 779.473
TT 15 CWH 1953
TT 16 CWH 1953

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5
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5

NGS

M 87 1935 719.241
M 87 1935
Q 87 1935 756.019
Q 87 1935 756.019
U 87 1935 801.767
U 297 1952 1359.006
V 297 1952 1180.201
W 297 1952 976.543
X 297 1952 941.087
Y 297 1952 835.901
Z 297 1952 770.130
A 299 1952 978.128
K 299 1952 944.565
M 299 1952 840.769
S 299 1952 1267.694
E 316 1952 836.983
F 316 1952
Y 317 1952 1047.908

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STATION	DESCRIPTION PLANE COORDINATES, FEET	LATITUDE ° ' "	LONGITUDE ° ' "
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The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

By C. W. Haas, 1953; Book AH 316

Elkhorn City, 0.6 mi NW. of Chesapeake and Ohio Railroad station, along State Highway 80, thence 4.0 mi NE. along graveled rd.; 210 ft N. of, and across rd. from large quonset type mine office; 40 ft E. of junction of rd. S. to mines; 20 ft NE. of centerline of rd.; in NW. end of NE. headwall of skew culvert over Beaver Creek; NGS standard disk stamped "U 297 1952 1359.006"

Ky. S.)	X = 2,999,299	Y = 387,138	37 20 48.18	82 18 41.72
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Elkhorn City, 0.6 mi NW. of C. & O. RR. station, along State Highway 80, thence 3.2 mi NE. along graveled rd.; 15 ft NW. of centerline of rd.; 9 ft NE. of SW. end of box culvert over Beaver Creek; in NW. headwall; NGS standard disk stamped "V 297 1952 1180.201"

	X = 2,998,003	Y = 382,744	37 20 05.22	82 18 59.73
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Elkhorn City, 0.6 mi NW. of C. & O. RR. station, along State Highway 80, thence 2.0 mi NE. along graveled rd.; 14 ft S. of centerline of rd.; in W. end of S. headwall of concrete culvert over creek; NGS standard disk stamped "W 297 1952 976.543"

	X = 2,993,952	Y = 379,280	37 19 32.45	82 19 51.41
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Elkhorn City, 0.6 mi NW. of C. & O. RR. station, along State Highway 80, thence 1.6 mi NE. along graveled rd.; 14 ft SE. of centerline of rd.; 26 ft NE. of N. corner of barn; 8 ft NE. of SW. end of box culvert over creek; in SE. headwall; NGS standard disk stamped "X 297 1952 941.087"

	X = 2,992,378	Y = 378,640	37 19 26.69	82 20 11.17
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Elkhorn City, 0.6 mi NW. of C. & O. RR. station, along State Highway 80, thence 0.6 mi NE. along graveled rd.; 52 ft NW. of, and across creek from centerline of rd.; 42 ft SW. of NE. end of retaining wall; in small horizontal shelf at bottom of concrete retaining wall along SE. side of deep RR. fill; NGS standard disk stamped "Y 297 1952 835.901"

	X = 2,988,609	Y = 375,874	37 19 00.70	82 20 59.04
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Elkhorn City, 0.6 mi NW. of C. & O. RR. station, along State Highway 80; 178 ft N. of junction of graveled rd. E.; 13 ft E. of centerline of hwy.; in S. end of E. headwall of partitioned culvert over Beaver Creek; NGS standard disk stamped "Z 297 1952 770.130"

	X = 2,985,855	Y = 374,694	37 18 50.02	82 21 33.64
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84 KY.-119 VA.
REGINA QUADRANGLE

37-082-24

4

STATION DESCRIPTION
PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

OBsolete MARKS (Cont'd.)

Elkhorn City, 2.4 mi N. of station, along C. & O. RR.; 500 ft S. of flag stop shed at Belcher; 5 ft W. of W. rail; in NW. wingwall of bridge; NGS standard disk stamped "R 87 1935 756.019"

Ky. S.) X = 2,981,559 Y = 383,358 37 20 17.15 82 22 22.95

Elkhorn City, 4.4 mi NW. of station, along C. & O. RR.; 120 ft S. of flag stop at Draffin; 36 ft E. of, and 15 ft lower than E. rail; in seventh step from bottom of large culvert over stream; NGS standard disk stamped "Q 87 1935 728.289"

X = 2,974,732 Y = 383,537 37 20 20.34 82 23 47.40

Marrowbone; 750 ft SE. of C. & O. RR. water tower; 9 ft E. of, and 2 ft lower than E. rail; in second step from top of S. bridge abutment; standard tablet stamped "719 KY"

X = 2,970,123 Y = 392,555 37 21 52.05 82 24 40.45

Marrowbone; 240 ft S. of C. & O. RR. station; 24 ft W. of, and 2 ft higher than W. rail; in E. corner of concrete base of S. leg of RR. water tank; NGS standard disk stamped "N 87 1935" (Not found, 1954)

X = 2,969,533 Y = 393,003 37 21 56.68 82 24 47.55

Marrowbone; 180 ft N. of water tank; 22 ft SE. of E. corner of C. & O. RR. station; 15 ft W. of W. rail; in concrete post; NGS standard disk stamped "M 87 1935 719.241" (Not found, 1954)

X = 2,969,392 Y = 393,126 37 21 57.95 82 24 49.24

Marrowbone, 2.5 mi S. of; 10 ft W. of centerline of rd.; 100 ft S. of wooden bridge W. over creek; in N. end of W. concrete headwall of culvert; standard tablet stamped "T1 1 CWH 1953 779.473"

X = 2,965,923 Y = 383,068 37 20 19.77 82 25 36.58

Lookout, 2.4 mi NE. of school, along State Highway 195; 3.8 mi S. of Marrowbone; 0.6 mi NE. of post office at Rockhouse; 51 ft SSE. of, and across hwy. from center of bridge over Marrowbone Creek on dirt rd. NW.; 19 ft SE. of centerline of hwy.; 151 ft SSE. of, and across hwy. and creek from power pole; 53 ft NE. of SW. end of rock cut; in rock cliff; NGS standard disk stamped "M 299 1952 840.769"

X = 2,961,944 Y = 379,710 37 19 47.97 82 26 27.27

Lookout, 0.8 mi NE. of school, along State Highway 195; 11 ft W. of centerline of hwy.; in S. end of W. concrete headwall of culvert over Mill Branch; NGS standard disk stamped "X 299 1952 944.565"

X = 2,956,759 Y = 374,791 37 19 01.15 82 27 33.55

STATION	DESCRIPTION PLANE COORDINATES, FEET	LATITUDE ° ' "	LONGITUDE ° ' "
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OBSOLETE MARKS (Cont'd.)

Lookout, 0.2 mi E. of school, along State Highway 195; at junction of gravelled rd. N.; 87 ft N. of, and across creek from centerline of hwy.; 26 ft W. of NW. corner of bridge on gravelled rd. across Marrowbone Creek; in W. end of abandoned bridge abutment; NGS standard disk stamped "J 299 1952 978.128"

Ky. S.)	X = 2,954,209	Y = 373,503	37 18 49.30	82 28 05.66
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Lookout, 1.8 mi NW. of, along State Highway 611; 17 ft N. of centerline of rd.; 53 ft ENE. of, and across rd. from power pole; 46 ft W. of N. end of stone culvert with catch basin; in rock cliff; NGS standard disk stamped "S 317 1952 1267.694"

	X = 2,946,710	Y = 378,328	37 19 39.54	82 29 36.37
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By C. W. Maas, 1953; Book AH 316

Conoway, 5.7 mi SW. of junction of U. S. Highway 460, along State Highway 610; 12 ft N. and 200 ft E. of centerline of Highway 610 at junction of rd. N.; in large boulder; standard tablet stamped "TI 15 CWH 1953"

	X = 3,016,517	Y = 375,815	37 18 50.05	82 15 13.83
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Elkhorn City, 5.2 mi E. of, along State Highway 80, thence 1.5 mi NE. along State Highway 610; 23 ft SW. of centerline of rd.; 4 ft NE. of NE. bank of creek; in boulder; standard tablet stamped "TI 16 CWH 1953"

	X = 3,010,398	Y = 374,003	37 18 34.38	82 16 30.35
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Elkhorn City, 4.7 mi E. of post office, along State Highway 80; 0.2 mi SW. of hwy. bridge over Grassy Creek; 18 ft N. of, and 3 ft higher than centerline of hwy.; 120 ft W. of W. end of bench cut; 105 ft W. of fence corner; 72 ft N. of, and across hwy. from abandoned well; in small rock outcrop; NGS standard disk stamped "Y 317 1952 1047.908"

	X = 3,003,602	Y = 371,966	37 18 16.71	82 17 55.33
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Elkhorn City, 2.1 mi SE. of; at W. end of Pool Point Tunnel; at steel RR. bridge over Russell Fork; in top of N. end of E. concrete abutment; standard tablet stamped "940 KY"

	X = 2,996,334	Y = 368,431	37 17 44.40	82 19 26.82
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Elkhorn City, 1.8 mi SE. of station, along Clinchfield RR.; 0.2 mi NW. of NW. end of Pool Point Tunnel; 210 ft SE. of, and across track from milepost 2; 9 ft NE. of NE. rail; in rock ledge; NGS standard disk stamped "F 316 1952" (Not found, 1954)

	X = 2,994,263	Y = 367,681	37 17 37.73	82 19 52.79
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84 KY.-119 VA.
REGINA QUADRANGLE

37-082-24
6

STATION DESCRIPTION
PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

OBSOLETE MARKS (Cont'd.)

Elkhorn City, 0.8 mi SE. of station, along Clinchfield RR.; 190 ft NW. of crossing of State Highway 80; 124 ft NW. of, and across track from milepost 1; 14 ft NE. of NE. rail of main track; in S. corner of concrete base of S. leg of southeasternmost one of two RR. water tanks; NGS standard disk stamped "E 316 1952 836.983"

Ky. S.) X = 2,990,932 Y = 371,868 37 18 20.29 82 20 32.10

Elkhorn City; 201 ft E. of E. platform at C. & O. RR. station; 76 ft E. of milepost 128; 15 ft S. of S. rail of main track; 12 ft N. of N. rail of spur track; in concrete post; NGS standard disk stamped "U 87 1935 801.767"

X = 2,988,307 Y = 371,867 37 18 21.21 82 21 04.57